

FIG.1 Circuits of HRPD Config. 1

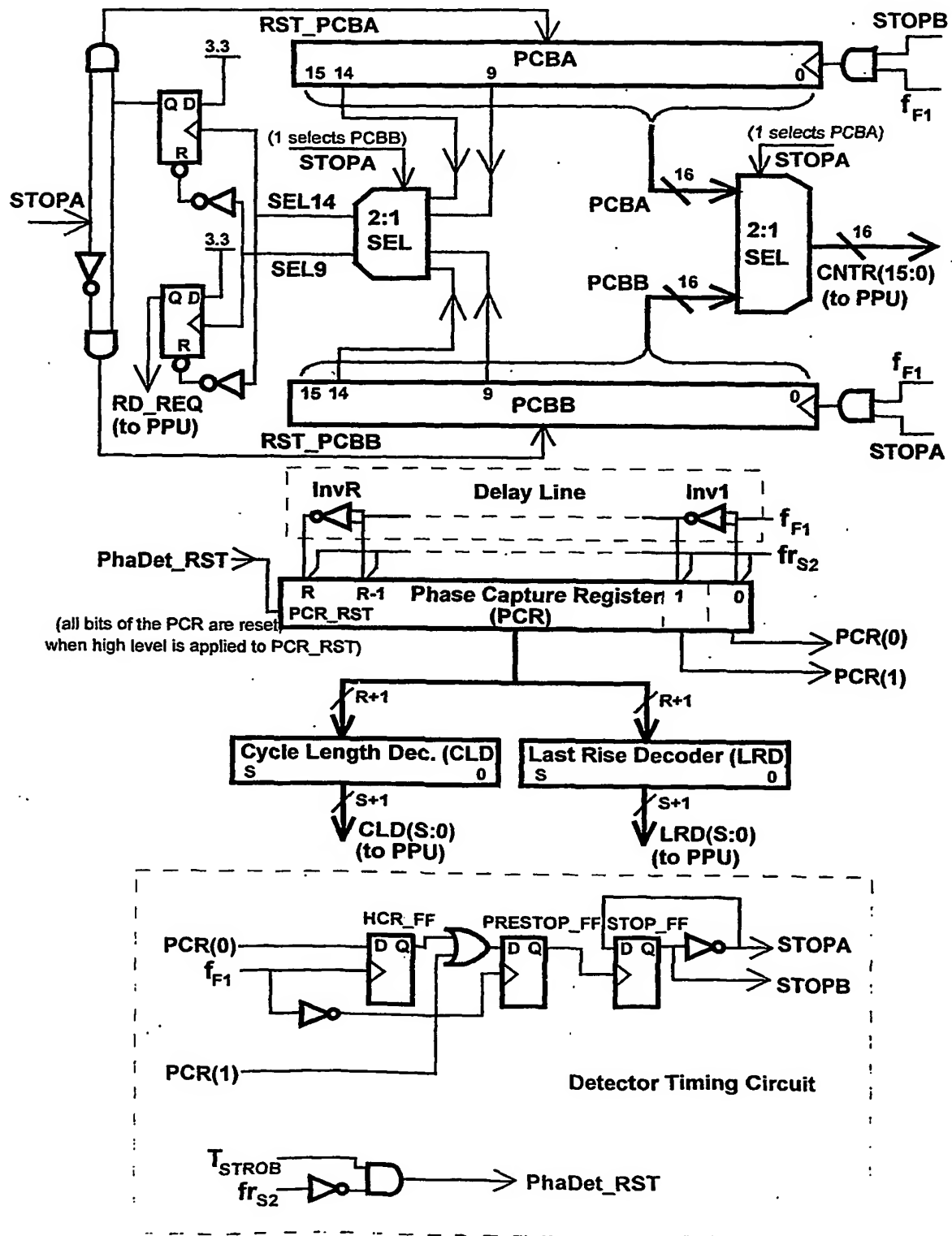
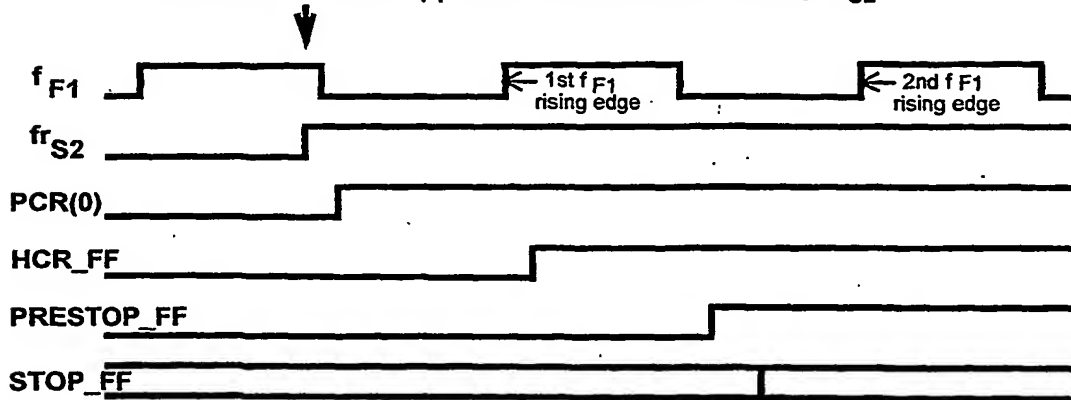


FIG.2 Timing Analysis of HRPD Config.1

For PCR(0)=1:

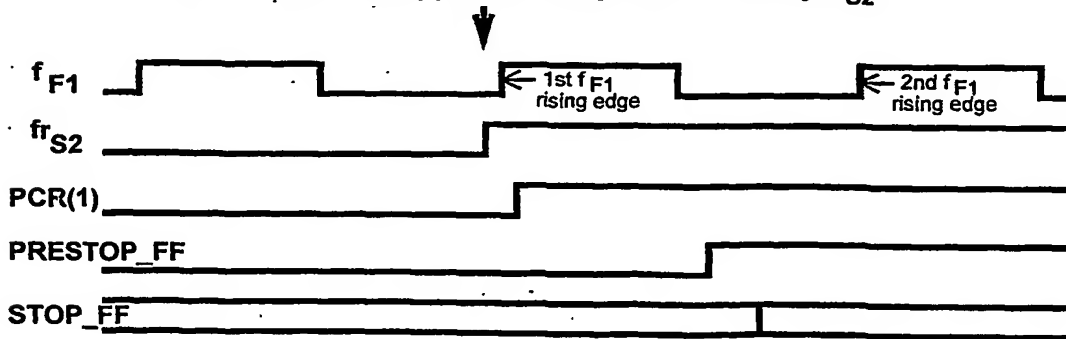
This arrow indicates fr_{S2} appearance versus f_{F1} wave.
The left side of the f_{F1} wave is captured in PCR by fr_{S2} .



This arrow indicates $STOP_FF$ switching,
before a second appearance of f_{F1} rising edge.

For PCR(1)=1:

This arrow indicates fr_{S2} appearance versus f_{F1} wave.
The left side of the f_{F1} wave is captured in PCR by fr_{S2} .



This arrow indicates $STOP_FF$ switching,
before a second appearance of f_{F1} rising edge.

Fig.3 High Resolution Extension of the HRPD Config.2

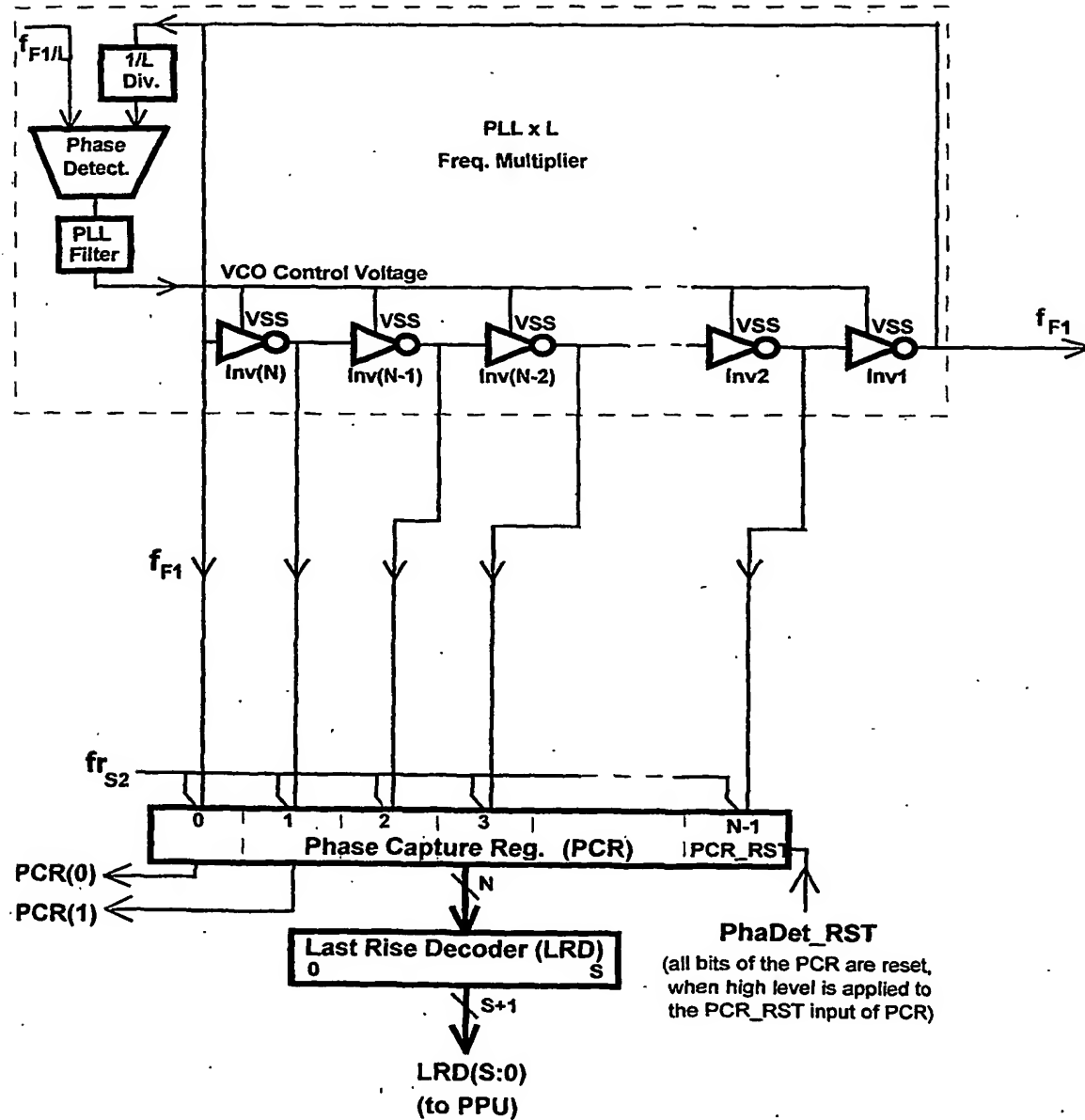


Fig.4 High Resolution Extension of the HRPD Config.3

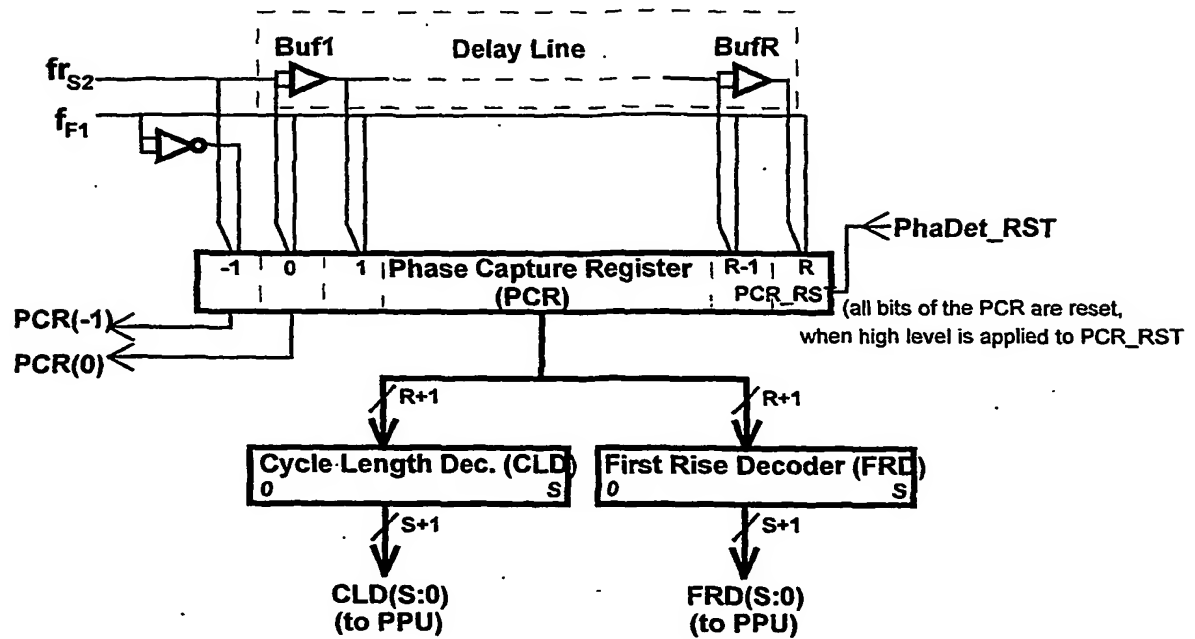


Fig.5 Detector Timing Circuit of the HRPD Config.3

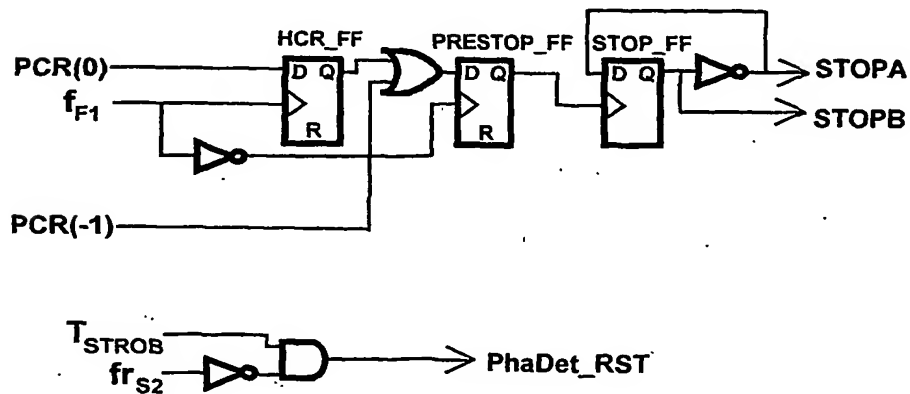
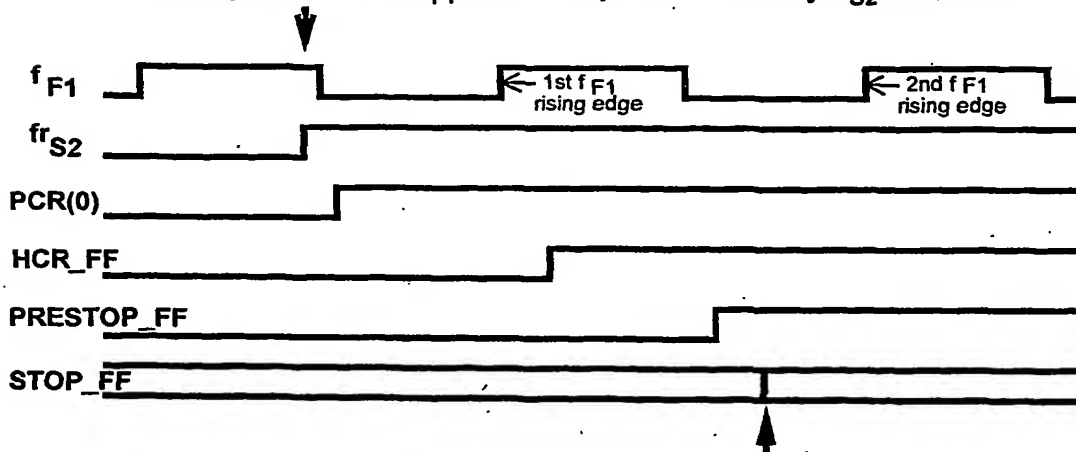


FIG.6 Timing Analysis of the HRPD Config.3

For PCR(0)=1:

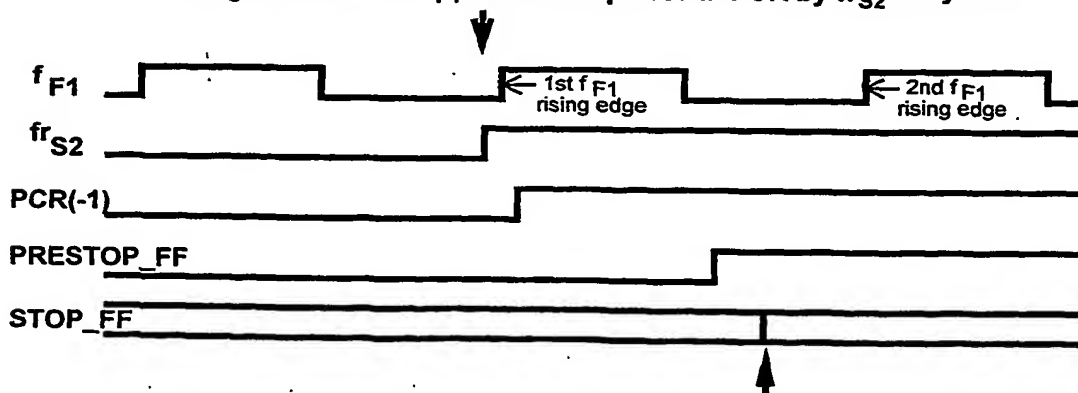
This arrow indicates fr_{S2} appearance versus f_{F1} wave.
The right side of the f_{F1} wave is captured in PCR by fr_{S2} delay line.



For PCR(-1)=1:

This arrow indicates $STOP_FF$ switching, before a second appearance of f_{F1} rising edge.

This arrow indicates fr_{S2} appearance versus f_{F1} wave.
The right side of the f_{F1} wave is captured in PCR by fr_{S2} delay line.



This arrow indicates $STOP_FF$ switching, before a second appearance of f_{F1} rising edge.

Fig.7 High Resolution Extension of the HRPD Config.4

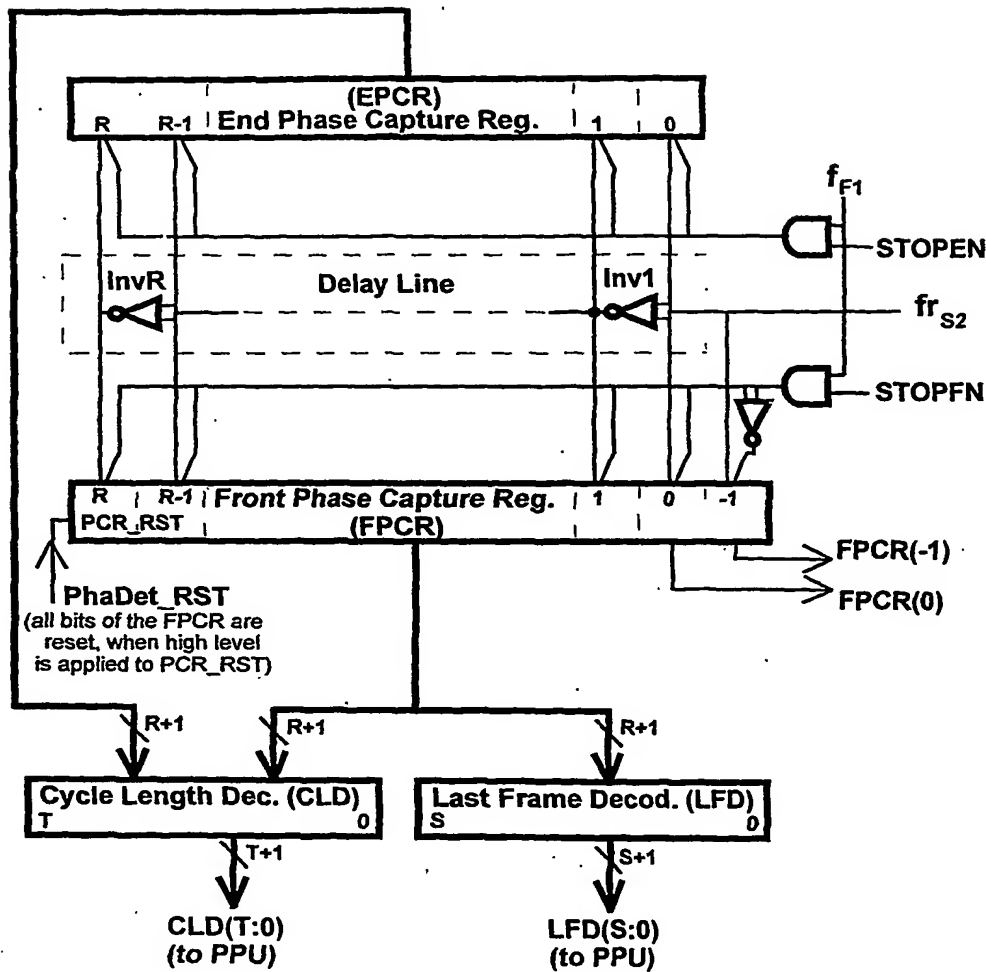


Fig.8 Detector Timing Circuit of the HRPD Config.4

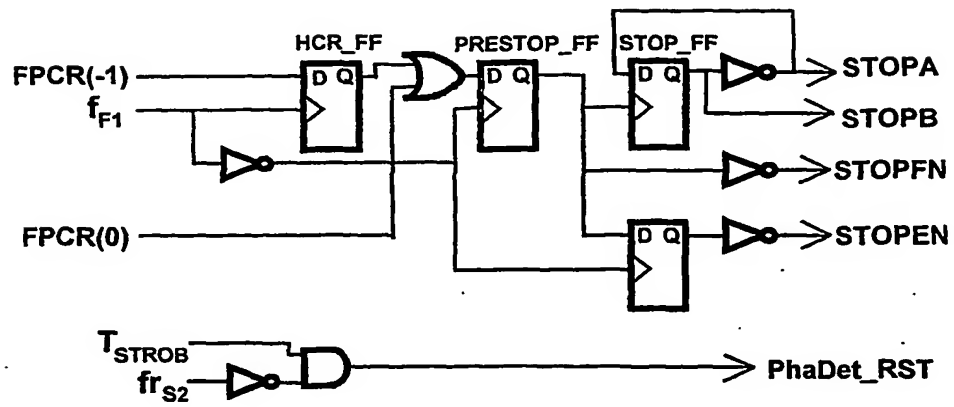
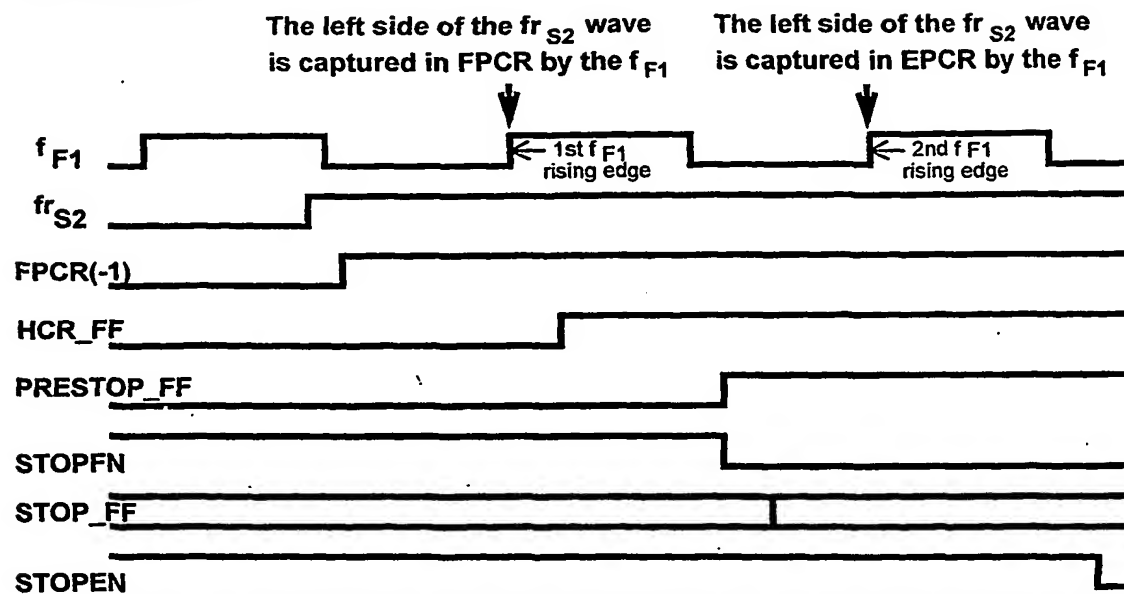


FIG.9 Timing Analysis of the HRPD Config.4

For FPCR(-1)=1:



For FPCR(0)=1:

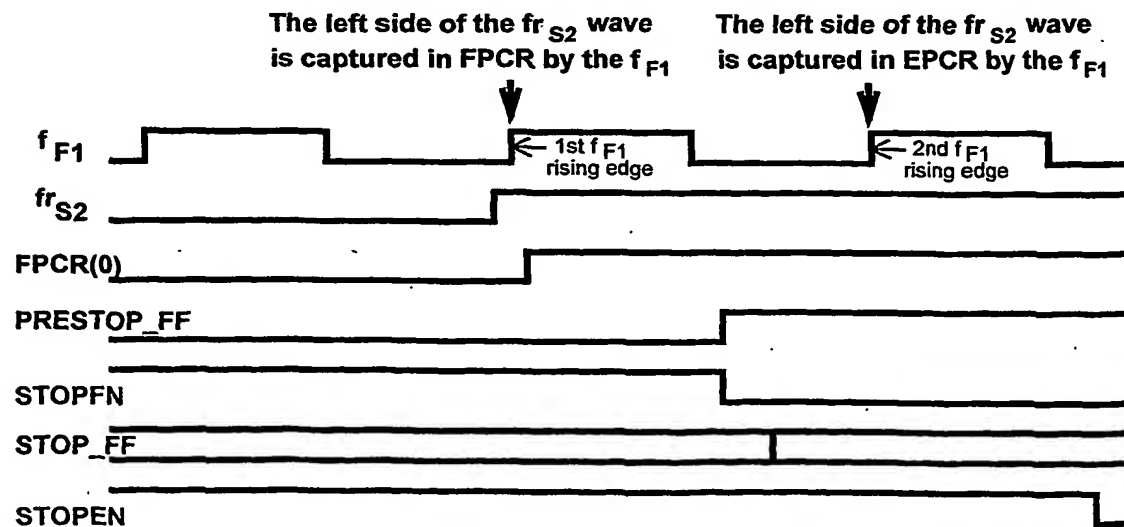


Fig.10 High Resolution Extension of the HRPD Config.5

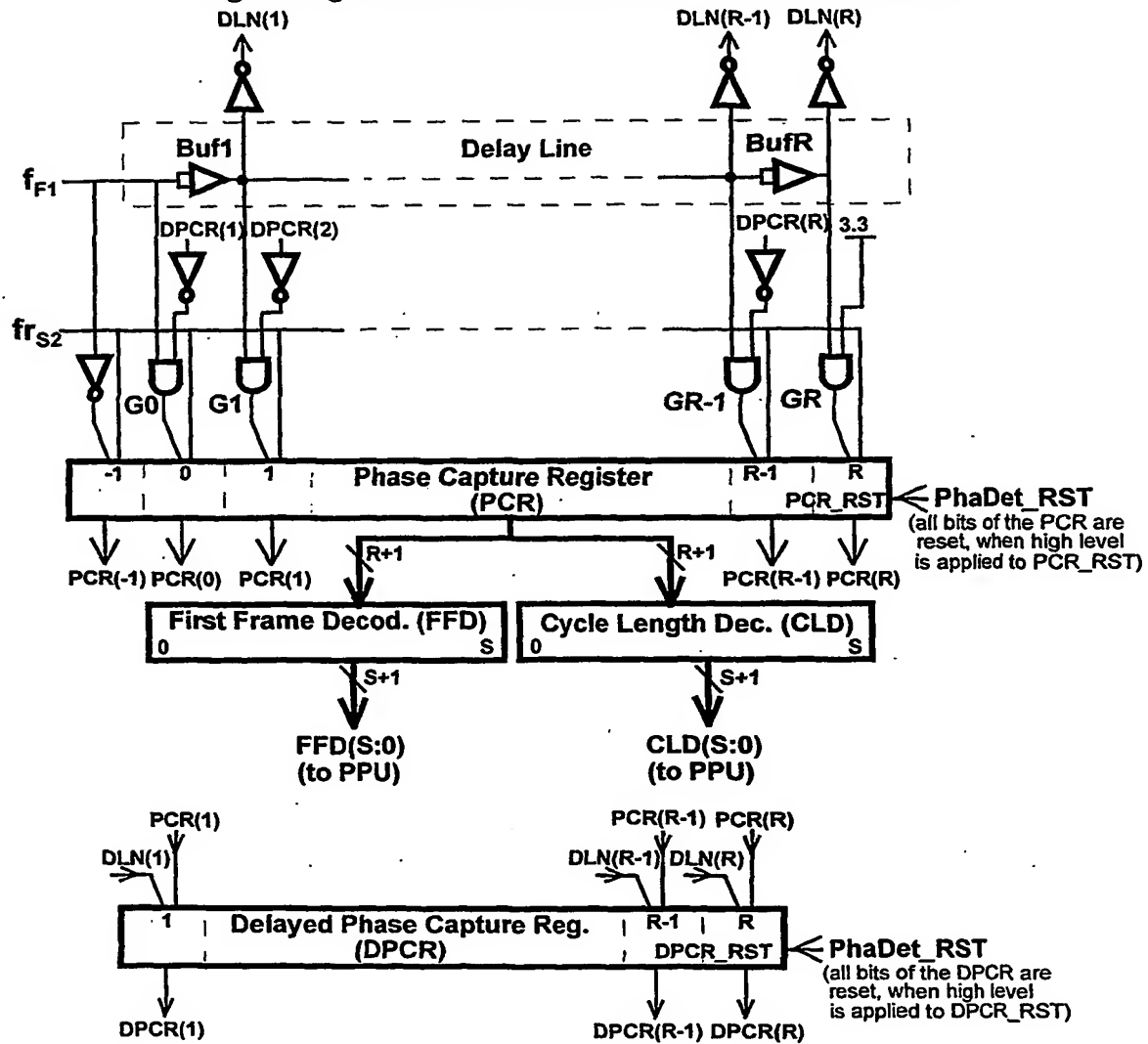


Fig.11 Detector Timing Circuit of the HRPD Config.5

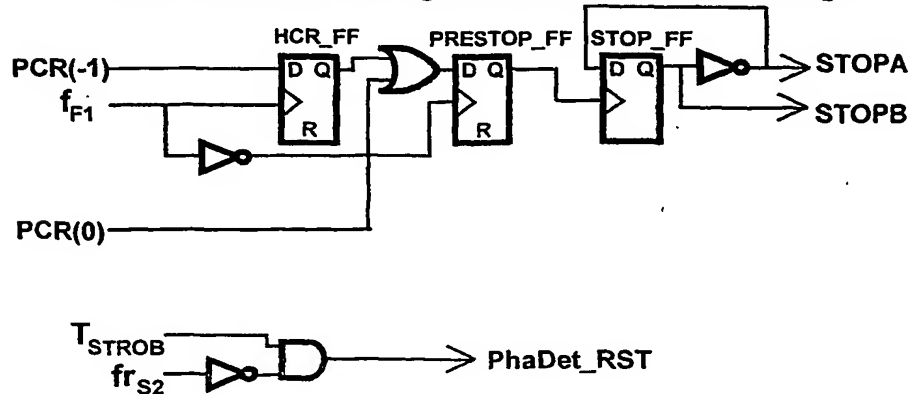
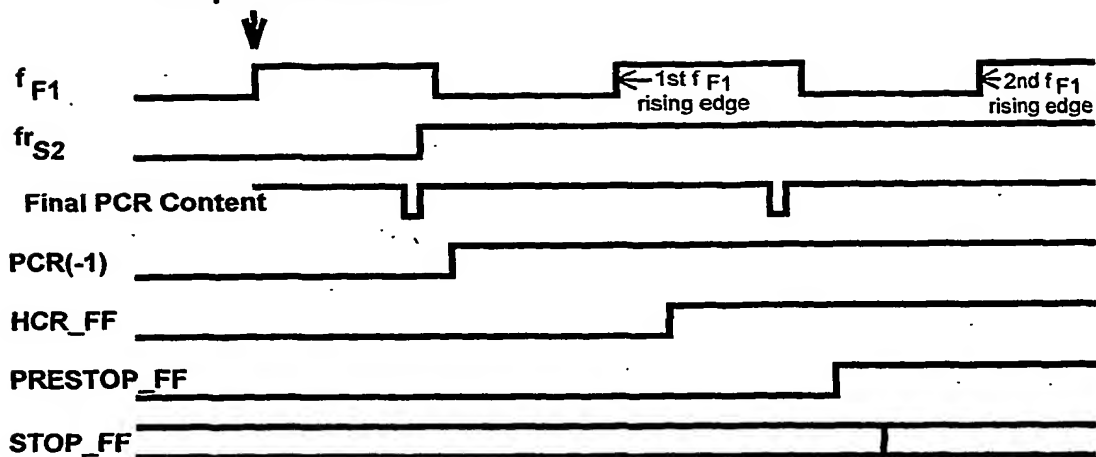


FIG.12 Timing Analysis of the HRPD Config.5

For PCR(-1)=1:

The right side of the fr_{S2}
is captured in the PCR.



For PCR(0)=1:

The right side of the fr_{S2}
is captured in the PCR.

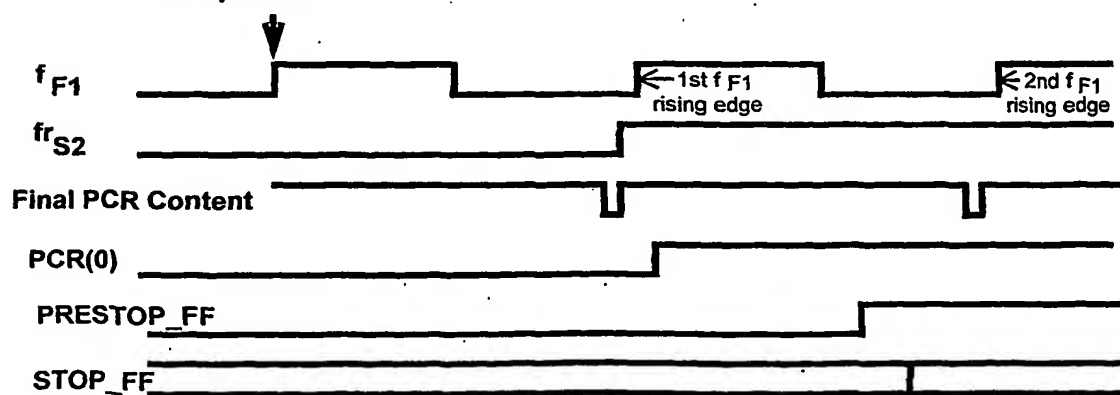
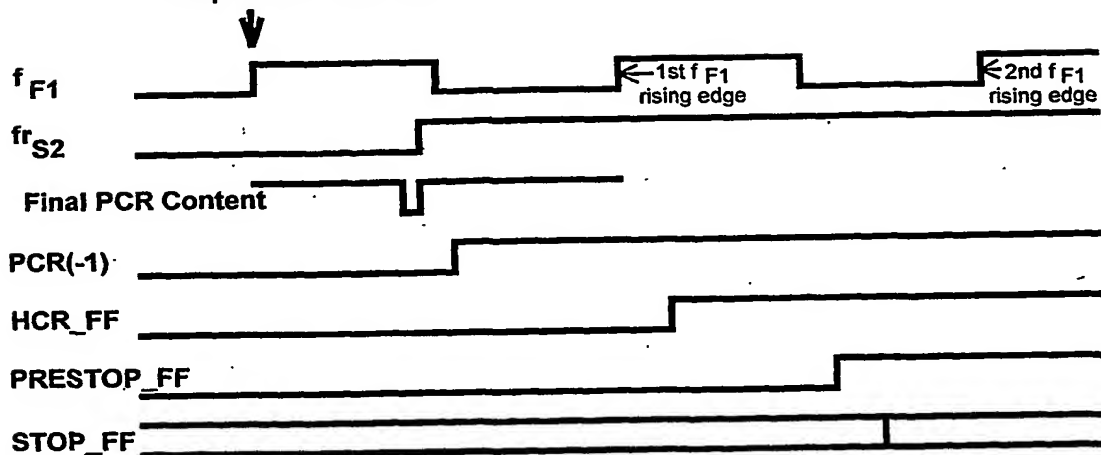


FIG.14 Timing Analysis of the HRPD Config.6

For PCR(-1)=1:

The right side of the frs2
is captured in the PCR.



For PCR(0)=1:

The right side of the frs2
is captured in the PCR.

